Olin Chemical Superfund Site
Wilmington, MA
Proposed Drinking Well Analystes [2]

Analyte[1]	CAS #	Olin Method in the QAPP[1]	EPA Lab Proposed Methods	EPA Program	Risk-based Screening Values µg/L[2]	Olin Lab MDL (µg/L)[1]	Olin Lab Reporting Limit (µg/L)[1]	EPA Lab Reporting Limits (µg/L)
Original Analytes								
Volatile Organic Compounds (VOCs)	various	8260B	524.2	OEME			1	0.5
Semivolatile Organic Compounds (SVOCs)	various	8270C	8270	OEME			5	2.7-5.4
N-Nitroso-dimethylamine	62-75-9	mod 521	1625	DAS-011	0.01	0.00045	0.002	0.001
Metals (Ca,Cr,Na)	various	6010B	200.8	OEME			400, 5, 400	1000, 500, 100
Anions (NO3, NO2, SO4, CL)	various	300	353.2,300.0,4500	OEME			10-100	20-500
Ammonia	7664-41-7	Lachat (EPA 350.1)	4500	OEME-SUB			100	75
Additional Analytes								
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mod 521	1625	DAS-011	0.0096	0.005	0.01	0.0096
N-Nitroso-diphenylamine	86-30-6	8270C[3]	8270	DAS-011	14	0.385	5	14
Hydrazine	302-01-2	mod 8315 LC/MS/MS	ASTM D1385	DAS-017	0.02	0.05	0.2	5
Acetaldehyde	75-07-0	SW-846 Method 8315	8315	DAS-017	2.2	10	30 [5.]	30
Formaldehyde	50-00-0	SW-846 Method 8315	8315	DAS-017	730	5	30 [5.]	30
Butylbenzylphthalate	85-68-7	8270C[3]	8270	OEME	35	0.53	5	5
Di-n-octyl phthalate	117-84-0	8270C[3]	8270	OEME	180	0.224	5	5
Di-n-butyl phthalate	84-74-2	8270C[3]	8270	OEME	370	0.711	5	5
Phenol	108-95-2	8270C[3]	8270	OEME	1100	0.075	5	5
Diethyl phthalate	84-66-2	8270C[3]	8270	OEME	2900	0.386	5	5
Dimethyl phthalate	131-11-3	8270C[3]	8270	OEME	37000	0.37	5	5

Footnotes:
1. MACTEC, Quality Assurance Project Plan for Remedial Investigation/Feasibility Study – Olin Chemical Superfund Site, Wilmington, MA", MACTEC Engineering and Consulting. Final August 2009.
2. Additional analytes and risk based screening level identified by USEPA in file named "Olin Proposed Add'l Analytes(2) xls" attached to e-mail to Olin dated January 28, 2009
3. Compound included as one of the 73 analytes in the parameter list for SVOCs in EPA-NE QAPP Worksheet #9b-Methods 8270C (pages 6-10 through 6-13 of QAPP).
4. RL for Hydrazine is 0.2 µg/L, and 0.5 for MMH and UDMH
5. The RL for Acetaldehyde and Formaldehyde have been changed to 30 µg/L. This will include running a 30 µg/L standard during instrument initial calibration.

Additional Notes:
TICs are reported for VOCs and SVOCs
Olin 8260B quantitation limit for VOCs is 1 µg/L for most compounds, but varies between analytes.
Olin 8260B quantitation limit for SVOCs is 5 µg/L for most compounds, but varies between analytes. Low PAH QLs (<1 µg/L)

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Checked by: CSL 11/3/2009

REPOSITORY TARGET SHEET

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